

## 1                    ABSTRACT OF THE DISCLOSURE

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3            Methods for providing flow control of signal streams  
4 over a single full duplex ETHERNET link include receiving  
5 multiple data streams over a single ETHERNET link,  
6 associating a buffer with each data stream, putting  
7 received data into the appropriate buffer, monitoring the  
8 fullness of the buffers, and transmitting a PAUSE frame to  
9 the source of the data streams where the PAUSE frame  
10 indicates the fullness of each buffer. The PAUSE frame is  
11 read and where indicated, the transmission of data destined  
12 for a congested buffer(s) is halted until a subsequent  
13 PAUSE frame is received which indicates that the congested  
14 buffer(s) has become decongested. Apparatus for performing  
15 the methods are also provided.